Solar Collector Series

Product List

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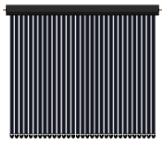
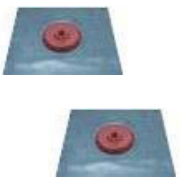
FULL COLLECTORS (MANIFOLD, TUBES & ROOF FRAME) :

Product Code	Description	Picture / Schematic
CSR00051	**Apricus Collector : AP10** 10-Way Manifold, 10 Tubes and Standard Roof Frame	
CSR00052	**Apricus Collector : AP20** 20-Way Manifold, 20 Tubes and Standard Roof Frame	
CSR00053	**Apricus Collector : AP30** 30-Way Manifold, 30 Tubes and Standard Roof Frame	

SLOPING ROOFING FIXTURES & FITTINGS :

Product Code	Description	Picture / Schematic
CSR00016	**Sloping Roof Fixing Kit – 10 Tube / 20 Tube Collector** 4 x Metal Straps with 4 x Self-Locking Nuts & 8 x Coach-bolts Suitable for attaching 10-Tube or 20-Tube Collectors to Tile and Slate Roofs	
CSR00017	**Sloping Roof Fixing Kit – 30 Tube Collector** 6 x Metal Straps with 6 x Self-Locking Nuts & 12 x Coach-bolts Suitable for attaching 30-Tube Collectors to Tile and Slate Roofs	
CSR00018	**Bolt Fixing Roof Kit – 10 / 20 Tube Collector (for Tiled, Slated & Metal Roofs)** Hanger Bolt Kit for bolting direct to roof sub-structure any thereby keeping loading off the roof covering. Contains 4 Hanger Bolts, 4 Rubber Pads and 4 x Nut, Bolt & Washer Fixings .	
CSR00019	**Bolt Fixing Roof Kit 30 Tube Collector (for Tiled, Slated & Metal Roofs)** Hanger Bolt Kit for bolting direct to roof sub-structure any thereby keeping loading off the roof covering. Contains 6 Hanger Bolts, 6 Rubber Pads and 6 x Nut, Bolt & Washer Fixings .	
CSR00064	**Roof Entry Flashings (Pack of 2)** 2 Single Flashings with Single Red Silicone Cone (Constant Temps of 200° C and Intermittent Temps to 250° C) making it the ideal solution for High Performance Evacuated Tube Solar Thermal Collectors. The cone is also provided with integrated nipples for the sensor cables. The item has high UV resistance and comes with a 20 year warranty. The lead tray can also be painted to match the colour of the roof.	

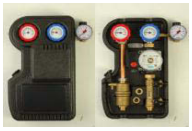
FLAT ROOF AND FACADE FIXING KITS :

Product Code	Description	Picture / Schematic
CSR00005	**A-Frame Kit – 10 / 20 Tube Collector** A-Frame Kit for attaching to Flat Roofs / Flat Surfaces Adjustable angle from 20° to 60°	
CSR00006	**A-Frame Kit – 30 Tube Collector** A-Frame Kit for attaching to Flat Roofs / Flat Surfaces Adjustable angle from 20° to 60°	

PRE-INSULATED FLEXIBLE STAINLESS STEEL PIPE :

Product Code	Description	Picture / Schematic
CSR00065 CSR00066 CSR00067	**DN16 Pre-Insulated Single Stainless Steel Pipe** AISI316 Stainless Steel, K Flex EPDM Solar Insulation, UV resistant to ISO 4892/2 Method A, Polyethylene Outer Cover, Fire Rating DIN 4102-B2, Free From CFC, HCFC or Formaldehyde, 4 Core Heavy Duty Sensor Cable. (Requires fixing kit CSR00069 for standard installation – additional fittings may also be require for other configurations) **20 Meters Boxed** **15 Meters Boxed** **10 Meters Boxed**	
CSR00071 CSR00072 CSR00073	**DN20 Pre-Insulated Dual Stainless Steel Pipe with Sensor Cable** AISI316 Stainless Steel, K Flex EPDM Solar Insulation, UV resistant to ISO 4892/2 Method A, Polyethylene Outer Cover, Fire Rating DIN 4102-B2, Free From CFC, HCFC or Formaldehyde, 4 Core Heavy Duty Sensor Cable. (Requires fixing kit CSR00070 for standard installation – additional fittings may also be require for other configurations) **20 Meters Boxed** **15 Meters Boxed** **10 Meters Boxed**	

PUMPING STATIONS :

Product Code	Description	Picture / Schematic
CSR00028	**Twin Line Solar Pumping Station with 4 x ¾" Flat Face Fittings** Fully Insulated 15/6 Pump Station, 2-12 ltr/min regulation, 6 bar pressure relief valve, Flush & Fill Ports, Manual Air Vent, Hot & Cold Temperature Gauges / Non-Return Valves, 4 x ¾" Flat Face Connectors. (Requires addition of Solar Expansion vessel shown in next section – sized according to the requirements of the system size)	
CSR00056	**Twin Line Solar Pumping Station with 4 x 22mm Compression Fittings** Fully Insulated 15/6 Pump station 2-12 ltr/min regulation, 6 bar pressure relief valve, Flush & Fill Ports, Manual Air Vent, Hot & Cold Temperature Gauges / Non-Return Valves, 4 x 22mm Compression Connectors. (Requires addition of Solar Expansion vessel shown in next section – sized according to the requirements of the system size)	
CSR00055	**Single Line Solar Pumping Station with 1 x ¾" Flat Face and 1 x 22 mm Comp. Fittings** Fully Insulated 15/6 Pump station, 2-12 ltr/min regulation, 6 bar pressure relief valve, Flush & Fill Ports, Temperature Gauge / Non-Return Valve, 1 x 22mm Compression Connector (Btm), 1 x ¾" Flat Face Connector (Top). (Requires addition of Solar Expansion vessel shown in next section – sized according to the requirements of the system size)	
CSR00061	**Single Line Solar Pumping Station with 2 x 22 mm Compression Fittings** Fully Insulated 15/6 Pump station, 2-12 ltr/min regulation, 6 bar pressure relief valve, Flush & Fill Ports, Temperature Gauge / Non-Return Valve, 2 x 22mm Compression Connectors. (Requires addition of Solar Expansion vessel shown in next section – sized according to the requirements of the system size)	

STANDARD ACCESSORIES AND CONSUMABLES:

Product Code	Description	Picture / Schematic
CSR00035	**Multi-Function Solar Controller** Multi-Function Solar Controller with 13 pre-programmed systems, with back-lit dual colour display and energy saving Eco Mode, with a special Boost Mode Function. Supplied with 1 x High Temperature PT1000 Sensors and 2 x Standard PT1000 Sensors	
CSA00001	**Sensor Extension Cable (4-core)** 10 meters of highly durable, 4-core extension cable for use with 1 or 2 sensors	
CSR00086	**High Temperature PT1000 Sensor (For Collector) – Spares Item** High Temperature PT1000 Sensor for the Solar Panel	
CSR00094	**Standard PT1000 Sensor (For Cylinder) – Spares Item** PT1000 Low temperature sensor (for the cylinder or 'heat qty. measurement')	

EXPANSION VESSEL KITS :

Product Code	Description	Picture / Schematic
	Solar Expansion Vessel with Fixing Kit (Bracket & Pipe) Zilmet HY-PRO Solar Vessels - 110°C working/130°C brief exposure time. Bag type Expansion Vessel with Zilan E solar membrane & steel closure flange. Includes wall fixing bracket and flexible s/s pipe and connections for the Solar Pumping Station.	
CSR00058	**12 Litre Solar Expansion Vessel with Fixing Kit (Bracket & Pipe)**	
CSR00059	**18 Litre Solar Expansion Vessel with Fixing Kit (Bracket & Pipe)**	
CSR00060	**24 Litre Solar Expansion Vessel with Fixing Kit (Bracket & Pipe)**	

STANDARD SYSTEM HYDRAULIC FIXTURES & FITTINGS :

Product Code	Description	Picture / Schematic
CSR00069	**Standard Hyrdaulic Fixing Component Kit : DN16 Pipe with ¾" Flat Face Fittings** Kit includes all hydraulic fittings and components required to fit DN16 Flexible Stainless Steel Pipe for Standard Solar System Layout. Includes 8 x Female Nuts, Washer/Gasket, 2 x 22mm to ¾" RA Fittings (to Collector) and 2 x ¾" to 22mm Spigot (to Cylinder) (Note : Does not include Flexible Stainless Steel Pipe – See Next Section for Pipe)	
CSR00052	**Through Roof (1st Fix Kit) DN16 : 2 x 1m Insulated Flexi Pipes** 2 of m Length of DN16 Pre-Insulated Flexible Stainless Steel Pipe with 1 x Male ¾" Fitting and 1 x Female ¾" Fitting, both for ¾" Flat Face gasket seals. (Note : To Connect to the Manifold 2 of ¾" to 22m Elbow Fittings are required – supplied with Standard Hydraulic Fittings Kit CSR00069 or part number CSR00077)	
CSR00070	**Standard Hyrdaulic Fixing Component Kit : DN20 Pipe with 1" Flat Face Fittings** Kit includes all hydraulic fittings and components to fit DN16 Flexible Stainless Steel Pipe to a Standard Solar System Layout. Includes 8 x Female Nuts, Washer and Gasket, 2 x 22mm to ¾" RA Fittings (Collector) and 6 x ¾" to 22mm Spigot (Cylinder) (Note : Does not include Flexible Stainless Steel Pipe – See Next Section for Pipe)	
CSR00057	**Through Roof (1st Fix Kit) DN20 : 2 x 1m Insulated Flexi Pipes** 2 of m Length of DN20 Pre-Insulated Flexible Stainless Steel Pipe with 1 x Male ¾" Fitting and 1 x Female ¾" Fitting, both for ¾" Flat Face gasket seals. (Note : To Connect to the Manifold 2 of 1" to 22m Elbow Fittings are required – supplied with Standard Hydraulic Fittings Kit CSR00070 or part number CSR00075)	

HYDRAULIC FIXTURES & FITTINGS FOR EAST / WEST INSTALLATIONS:

Product Code	Description	Picture / Schematic
CSR00078	**East West Connection Add-On Kit : DN16 Pipe with ¾" Flat Face Fittings** When combined with product CSR00069 gives fittings required for a standard East / West System Installation. This kit includes additional High Temperature PT1000 Sensor, 2 x ¾" Flat Face Equal Tees and 10 x Female Nuts, Washers & Gaskets	
CSR00076	**East West Connection Add-On Kit : DN20 Pipe with 1" Flat Face Fittings** When combined with product CSR00070 gives fittings required for a standard East / West System Installation. This kit includes additional High Temperature PT1000 Sensor, 2 x 1" Flat Face Equal Tees and 10 x Female Nuts, Washers & Gaskets	
CSR00088	**East West Connection Add-On Kit : 22mm Compression Fittings** Kit provides extra fitting required for a standard East / West System Installation. This kit includes additional High Temperature PT1000 Sensor, 2 x 22mm Compression Equal Tees	

STANDARD ACCESSORIES AND CONSUMABLES:

Product Code	Description	Picture / Schematic
CSR00021	**Solar Thermal Anti-Freeze : 20 Litre Drum** 60/40 Mix of Propylene Glycol Antifreeze with special corrosion inhibitors specifically developed for high performance evacuated tube solar thermal collectors	
CSR00037	**Safety Valve Blow-Off Discharge Container** Specially designed container to catch any Glycol Fluid that is dispelled from the Pressure Relief Valve during an over-pressure event. The unit has a fluid capacity of 9.6 Litres and is manufactures from Polyethelene Lupolen making it capable of withstanding short term discharge temperatures of 160°C	
CSR00012	**Apricus HD-25 Thermal Dump** This unit is typically utilised in installations where there will be a need during periods of low thermal draw-off to safely and effectively dissipate the excess thermal energy. Examples of such applications could be Schools, Holiday Homes, Sports Clubs etc.. The unit has a Thermal Dissipation capacity of 1kW in Still Air and 2 kW in Flowing Air Conditions	
CSA00002	**Solar 3-Port Diverter Valve : 22mm** This 3-Port Solar Diverter valve is suitable for use with the Apricus HD-25 Thermal Dump and is driven using a 230 V signal. The valve is rated to 120 °C with intermittent temperatures of 150 °C – making it the ideal solution for Solar Thermal Applications.	

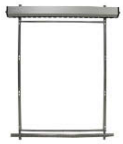
PROFESSIONAL INSTALLERS ACCESSORIES:

Product Code	Description	Picture / Schematic
CSR00038	**Professional Solar Flush & Fill Cart** Professional Flush & Fill cart for charging the solar thermal circuit. Unit has a 230V Pump.	
CSR00033	**Solar Pipe Cutter** High quality, specially designed pipe cutter specifically for corrugated stainless steel piping.	
CSR00034	**Solar Pipe Flanging Tool** High quality, specially designed tool for manually forming a flat face on the flexible stainless steel pipework	
CSR00079	**Solar Thermal Installers Tool Box** This is an ideal starter tool box for both the new and experienced Solar Thermal Installer. It includes a Glycol Meter, Pressure Gauge, Compass, pH Test Paper, Installers Spanner and is shipped in a convenient ToolBox	
CSR00010	**Apricus Short Demo Tube (Boxed)** The demo box comes with a complete short Apricus Demo tube. This is ideal for demonstrating the key features of the Apricus Tubes in a handy to transport size and box.	
CSR00047	**Apricus Short Demo Collector** The Apricus Demo Collector is ideal for table-top displays, training and presentations. The Demo Collector comes complete with a 4-Way Manifold Header (with removable lid and insulation partly removed for clarity), 3-Standard Short Heat Pipe Tubes and 1-Uncoated Short Tube. This is the ideal accompaniment for training or sales demonstrations.	

MISCELLANEOUS SPARES AND PRODUCTS :

Product Code	Description	Picture / Schematic
CSR00048	**Heat Transfer Paste (25g)** Spare tube of Thermal Heat Transfer Paste (25g) for coating the Heat Pipe Condenser bulb to ensure a good thermal contact between the Condenser body and the Manifold Thermal Pockets.	
CSR00077	**DN16 Collector Connection Elbows** Pack of 2 Connection Elbows with 22mm Compression to ¾" Flat Face / DN16 Pipe Seal	
CSR00075	**DN20 Collector Connection Elbows** Pack of 2 Connection Elbows with 22mm Compression to 1" Flat Face / DN20 Pipe Seal	
CSR00025	**22mm x 22mm Collector Connection Straight** Pack of 2 Connection Straights with 22mm x 22mm Compression Fittings – Suitable for use when installer opts to use 22mm Copper Pipe (or 15mm Copper pipe with suitable 22mm x 15mm reducers)	
CSR00026	**22mm x 22mm Collector Connection Elbows** Pack of 2 Connection Elbows with 22mm x 22mm Compression Fittings – Suitable for use when installer opts to use 22mm Copper Pipe (or 15mm Copper pipe with suitable 22mm x 15mm reducers)	
CSR00092	**22mm Pipe Spigot Connector x ¾" Male / DN16 Pipe (Pack of 2)** Pack of 2 Spigots for Connection 22mm Compression fitting to ¾" Flat Face Seal – Pack also includes 2 of ¾" Female Nuts, 2 x HT ¾" Fibre Gaskets, 2 x DN16 'C' Clips	
CSR00093	**¾" Equal Tee Connection Kit** Pack of 1 of ¾" Flat Face Seal Equal Tee – Pack also includes 3 of ¾" Female Nuts, 3 x HT ¾" Fibre Gaskets, 3 x DN16 'C' Clips	
CSR00046	**Hanger Bolt and Plate : M10 x 250mm** Roof Hanger Bolt for direct bolting to the roof / rafters where it is required to have no collector weight resting on the roof covering.	
CSR00027	**Solar System Cleaning Fluid** An aggressive cleaning fluid to clean out solar thermal systems where the glycol fluid has broken down. It is important to ensure that the cleaning fluid is matched with the original glycol fluid used to fill the system….contact CoolSky for more details if you require cleaning fluids.	

INDIVIDUAL APRICUS PRODUCTS :

Product Code	Description	Picture / Schematic
CSR00001	**APRICUS 10-Way Manifold with Standard Roof Frame** Standard Apricus 10-Way Manifold with matching Standard Roof Frame	
CSR00002	**APRICUS 20-Way Manifold with Standard Roof Frame** Standard Apricus 20-Way Manifold with matching Standard Roof Frame	
CSR00003	**APRICUS 30-Way Manifold with Standard Roof Frame** Standard Apricus 30-Way Manifold with matching Standard Roof Frame	
CSR00004	**APRICUS HEAT-PIPE TUBES (Box of 10)** Complete 10 of APRICUS Frost Protected Heat-Pipe tubes (Full Tubes - complete glass tube including heat-pipe, end protective rubber, spring, washer and spring plate).	

COPPER INDUSTRIES STANDARD DOMESTIC BUNDLES IN A BOX :

(3/4" Flat Face Seals - DN16 Flexible S/S Pipe)

Product Code	Description	Picture / Schematic
Copper Industries Bundle : ¾" System 10	**10 Tube Apricus Collector Complete Bundle (DN16 Flexible Pipe)** 1 x 10-Way Full Collector - Manifold, Tubes & Roof Frame (CSR00051) 1 x Sloping Roof Fixing Kit – 10/20 Tubes (CSR00016) 1 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station ¾" Flat Face Seal Fittings (CSR00028) 1 x 12 Litre Expansion Vessel & Bracket (CSR00058) 1 x DN16 Pre-Insulated Single Stainless Steel Pipe 20 Metres (CSR00065) 1 x Standard Hydraulic Fixing Component Kit ¾" (CSR00069) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	
Copper Industries Bundle : ¾" System 20	**20 Tube Apricus Collector Complete Bundle (DN16 Flexible Pipe)** 1 x 20-Way Full Collector - Manifold, Tubes & Roof Frame (CSR00052) 1 x Sloping Roof Fixing Kit – 10/20 Tubes (CSR00016) 1 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station ¾" Flat Face Seal Fittings (CSR00028) 1 x 18 Litre Expansion Vessel & Bracket (CSR00059) 1 x DN16 Pre-Insulated Single Stainless Steel Pipe 20 Metres (CSR00065) 1 x Standard Hydraulic Fixing Component Kit ¾" (CSR00069) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	
Copper Industries Bundle : ¾" System 30	**30 Tube Apricus Collector Complete Bundle (DN16 Flexible Pipe)** 1 x 30-Way Full Collector - Manifold, Tubes & Roof Frame (CSR00053) 1 x Sloping Roof Fixing Kit – 30 Tubes (CSR00017) 1 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station ¾" Flat Face Seal Fittings (CSR00028) 1 x 18 Litre Expansion Vessel & Bracket (CSR00059) 1 x DN16 Pre-Insulated Single Stainless Steel Pipe 20 Metres (CSR00065) 1 x Standard Hydraulic Fixing Component Kit ¾" (CSR00069) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	

NOTE : To Convert any of the above into a system suitable for a Flat Roof or Ground Installation then add an A-Frame to the bundle that you have selected above. The A-Frames available are as follows :

CSR00005	**A-Frame Kit – 10 / 20 Tube Collector** Adjustable angle from 20° to 60°	
CSR00006	**A-Frame Kit – 30 Tube Collector** Adjustable angle from 20° to 60°	

COPPER INDUSTRIES STANDARD DOMESTIC BUNDLES IN A BOX :

(With 22mm Compression Fittings for Pipe Supplied by Installer)

Product Code	Description	Picture / Schematic
Copper Industries Bundle : 22mm System 10	**10 Tube Apricus Collector Complete Bundle (22mm COMP Fittings)** 1 x 10-Way Full Collector - Manifold, Tubes & Roof Frame (CSR00051) 1 x Sloping Roof Fixing Kit – 10/20 Tubes (CSR00016) 1 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station 22mm Compression Fittings (CSR00056) 1 x 12 Litre Expansion Vessel & Bracket (CSR00058) 1 x Manifold Connection Elbows 22mm x 22mm – Pack of 2 (CSR00026) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	
Copper Industries Bundle : 22mm System 20	**20 Tube Apricus Collector Complete Bundle (22mm COMP Fittings)** 1 x 20-Way Full Collector - Manifold, Tubes & Roof Frame (CSR00052) 1 x Sloping Roof Fixing Kit – 10/20 Tubes (CSR00016) 1 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station 22mm Compression Fittings (CSR00056) 1 x 18 Litre Expansion Vessel & Bracket (CSR00059) 1 x Manifold Connection Elbows 22mm x 22mm – Pack of 2 (CSR00026) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	
Copper Industries Bundle : 22mm System 30	**30 Tube Apricus Collector Complete Bundle (22mm COMP Fittings)** 1 x 30-Way Full Collector - Manifold, Tubes & Roof Frame (CSR00053) 1 x Sloping Roof Fixing Kit – 30 Tubes (CSR00017) 1 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station 22mm Compression Fittings (CSR00056) 1 x 18 Litre Expansion Vessel & Bracket (CSR00059) 1 x Manifold Connection Elbows 22mm x 22mm – Pack of 2 (CSR00026) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	

NOTE : To Convert any of the above into a system suitable for a Flat Roof or Ground Installation then add an A-Frame to the bundle that you have selected above. The A-Frames available are as follows :

CSR00005	**A-Frame Kit – 10 / 20 Tube Collector** Adjustable angle from 20° to 60°	
CSR00006	**A-Frame Kit – 30 Tube Collector** Adjustable angle from 20° to 60°	

COPPER INDUSTRIES EAST / WEST DOMESTIC BUNDLES IN A BOX :

(3/4" Flat Face Seals - DN16 Flexible S/S Pipe)

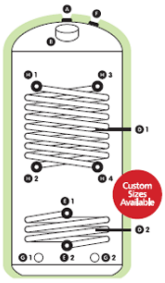
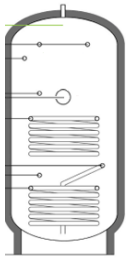
Product Code	Description	Picture / Schematic
Copper Industries Bundle : ¾" East/West 10 x 10	**East/West Apricus Collector Complete Bundle 2 x 10 Tube Collectors** 2 x 10-Way Full Collectors - Manifold, Tubes & Roof Frame (CSR00051) 2 x Sloping Roof Fixing Kit – 10/20 Tubes (CSR00016) 2 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station ¾" Flat Face Seal Fittings (CSR00028) 1 x Single Line Pump Station ¾" Top / 22mm Bottom Fittings (CSR00055) 1 x 18 Litre Expansion Vessel & Bracket (CSR00059) 1 x DN16 Pre-Insulated Single Stainless Steel Pipe 20 Metres (CSR00065) 1 x Standard Hydraulic Fixing Component Kit ¾" (CSR00069) 1 x East West Connection Add-On Kit DN16 (CSR00078) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	
Copper Industries Bundle : ¾" East/West 20 x 20	**East/West Apricus Collector Complete Bundle 2 x 20 Tube Collectors** 2 x 20-Way Full Collectors - Manifold, Tubes & Roof Frame (CSR00052) 2 x Sloping Roof Fixing Kit – 10/20 Tubes (CSR00016) 2 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station ¾" Flat Face Seal Fittings (CSR00028) 1 x Single Line Pump Station ¾" Top / 22mm Bottom Fittings (CSR00055) 1 x 18 Litre Expansion Vessel & Bracket (CSR00059) 1 x DN16 Pre-Insulated Single Stainless Steel Pipe 20 Metres (CSR00065) 1 x Standard Hydraulic Fixing Component Kit ¾" (CSR00069) 1 x East West Connection Add-On Kit DN16 (CSR00078) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	
Copper Industries Bundle : ¾" East/West 30 x 30	**East/West Apricus Collector Complete Bundle 2 x 30 Tube Collectors** 2 x 30-Way Full Collectors - Manifold, Tubes & Roof Frame (CSR00053) 2 x Sloping Roof Fixing Kit – 30 Tubes (CSR00017) 2 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station ¾" Flat Face Seal Fittings (CSR00028) 1 x Single Line Pump Station ¾" Top / 22mm Bottom Fittings (CSR00055) 1 x 18 Litre Expansion Vessel & Bracket (CSR00059) 1 x DN16 Pre-Insulated Single Stainless Steel Pipe 20 Metres (CSR00065) 1 x Standard Hydraulic Fixing Component Kit ¾" (CSR00069) 1 x East West Connection Add-On Kit DN16 (CSR00078) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	

COPPER INDUSTRIES EAST / WEST DOMESTIC BUNDLES IN A BOX :

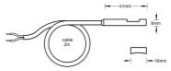
(With 22mm Compression Fittings for Pipe Supplied by Installer)

Product Code	Description	Picture / Schematic
Copper Industries Bundle : ¾" East/West 10 x 10	**East/West Apricus Collector Complete Bundle 2 x 10 Tube Collectors** 2 x 10-Way Full Collectors - Manifold, Tubes & Roof Frame (CSR00051) 2 x Sloping Roof Fixing Kit – 10/20 Tubes (CSR00016) 2 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station 22mm Compression Fittings (CSR00056) 1 x Single Line Pump Station 22mm Compression Fittings (CSR00061) 1 x 18 Litre Expansion Vessel & Bracket (CSR00059) 2 x Manifold Connection Elbows 22mm x 22mm – Pack of 2 (CSR00026) 1 x East West Connection Add-On Kit 22mm Compression Fittings (CSR00088) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	
Copper Industries Bundle : ¾" East/West 20 x 20	**East/West Apricus Collector Complete Bundle 2 x 20 Tube Collectors** 2 x 20-Way Full Collectors - Manifold, Tubes & Roof Frame (CSR00052) 2 x Sloping Roof Fixing Kit – 10/20 Tubes (CSR00016) 2 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station 22mm Compression Fittings (CSR00056) 1 x Single Line Pump Station 22mm Compression Fittings (CSR00061) 1 x 18 Litre Expansion Vessel & Bracket (CSR00059) 2 x Manifold Connection Elbows 22mm x 22mm – Pack of 2 (CSR00026) 1 x East West Connection Add-On Kit 22mm Compression Fittings (CSR00088) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	
Copper Industries Bundle : ¾" East/West 30 x 30	**East/West Apricus Collector Complete Bundle 2 x 30 Tube Collectors** 2 x 30-Way Full Collectors - Manifold, Tubes & Roof Frame (CSR00053) 2 x Sloping Roof Fixing Kit – 30 Tubes (CSR00017) 2 x Roof Entry Flashings – Pack of 2 (CSR00064) 1 x Twin Line Pumping Station 22mm Compression Fittings (CSR00056) 1 x Single Line Pump Station 22mm Compression Fittings (CSR00061) 1 x 18 Litre Expansion Vessel & Bracket (CSR00059) 2 x Manifold Connection Elbows 22mm x 22mm – Pack of 2 (CSR00026) 1 x East West Connection Add-On Kit 22mm Compression Fittings (CSR00088) 1 x Solar Thermal Anti-Freeze : 20 Litres (CSR00021) 1 x Multi-Function Solar Controller with 3 Sensors (CSR00035)	

THERMAL STORAGE CYLINDERS :

Product Code	Description	Picture / Schematic
Call for Details	**Vented Copper Cylinders (Twin & Triple Coil Available)** Copper Industries offer the SolarPod™ Twin Coil and Triple Coil Vented Copper Cylinders that have been specifically designed to work in conjunction with the domestic heating system. The Solar Coils are all manufactured from high efficiency finned tubes with large surface areas, to ensure optimal transfer of heat from the solar collectors into the solar hot water cylinder. The Cylinders are available in various sizes (both volumetrically and dimensionally) to match both the users thermal demands and space limitations, with typical standard sizes being 200 litre and 300 litre cylinders for matching with the Apricus 20-Tube and 30-Tube Collectors respectively. Other sizes and custom sized cylinders can be made upon request. Contact Copper Industries for more details.	
Call for Details	**Un-Vented Stainless Steel Cylinders (Twin & Direct Solar Available)** Copper Industries offer the AquaPod™ Duplex Stainless Steel Cylinders that come with a 25 Year Guarantee. The Cylinders are available in either a Twin Coil Solar or Direct Solar configurations in a slimline design. The Cylinders are available in various sizes to match both the thermal demands of the Solar System, with typical standard sizes being 210 litre and 300 litre cylinders for matching with the Apricus 20-Tube and 30-Tube Collectors respectively. Other sizes and custom sized larger cylinders can be made upon request. Contact Copper Industries for more details.	
Call for Details	**Bespoke Cylinder Design & Manufacture** Copper Industries are able to offer our customers a bespoke cylinder design service for the design and manufacture of cylinders to match your specific needs and requirements. For More information on the Bespoke Design service or your needs for other Thermal Stores please contact Copper Industries directly.	
CSR00087	**Willis Solasyphon** The Willis Solasyphon from Copper Industries offers the user a low cost alternative to the twin coil solar cylinder. The Solasyphon will cut your installation costs by enabling the existing hot water cylinder to be retained and provide an overall more economically viable option at a very affordable price….thereby cutting the pay-back period for the customer investment.	

COOLSKY GENERAL HEATING PRODUCTS :

Product Code	Description	Picture / Schematic
CSH00001	**Willis Heating & Plumbing : 10-Zone Underfloor Heating Controller** Underfloor heating controller for dynamically controlling the flow temperature from the heating system to the underfloor heating loops. Can control up to 10-Zones with a digital user interface that allows the user to adjust the desired set temperature for the underfloor loop. Provided with monitoring alarms to detect overheating issues with an emergency safety temperature Cool-Down feature to protect the underfloor loop from high temperatures. Requires PT1000 Sensor CSA0001.	
CSA00001	**PT1000 Pipe Sensor** A PT1000 Temperature Sensor supplied with cable tie for securing to heating pipe-work.	
CSR00091	**Frost Protection Thermostat (Weatherproof)** Thermostat specifically designed for outdoor applications. Can be used in the domestic heating circuit to activate the heating system when outdoor temperatures start to fall below zero degrees centigrade. Activating the heating system will prevent freezing and potential bursting of the domestic heating pipes. Activating temperature range from -5 to +25 deg C.